

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1244891

Luminaire Tested: PRLX-MIN-M-927-07L-U-NL

Issue Date: 1/30/2026

**Test Information**

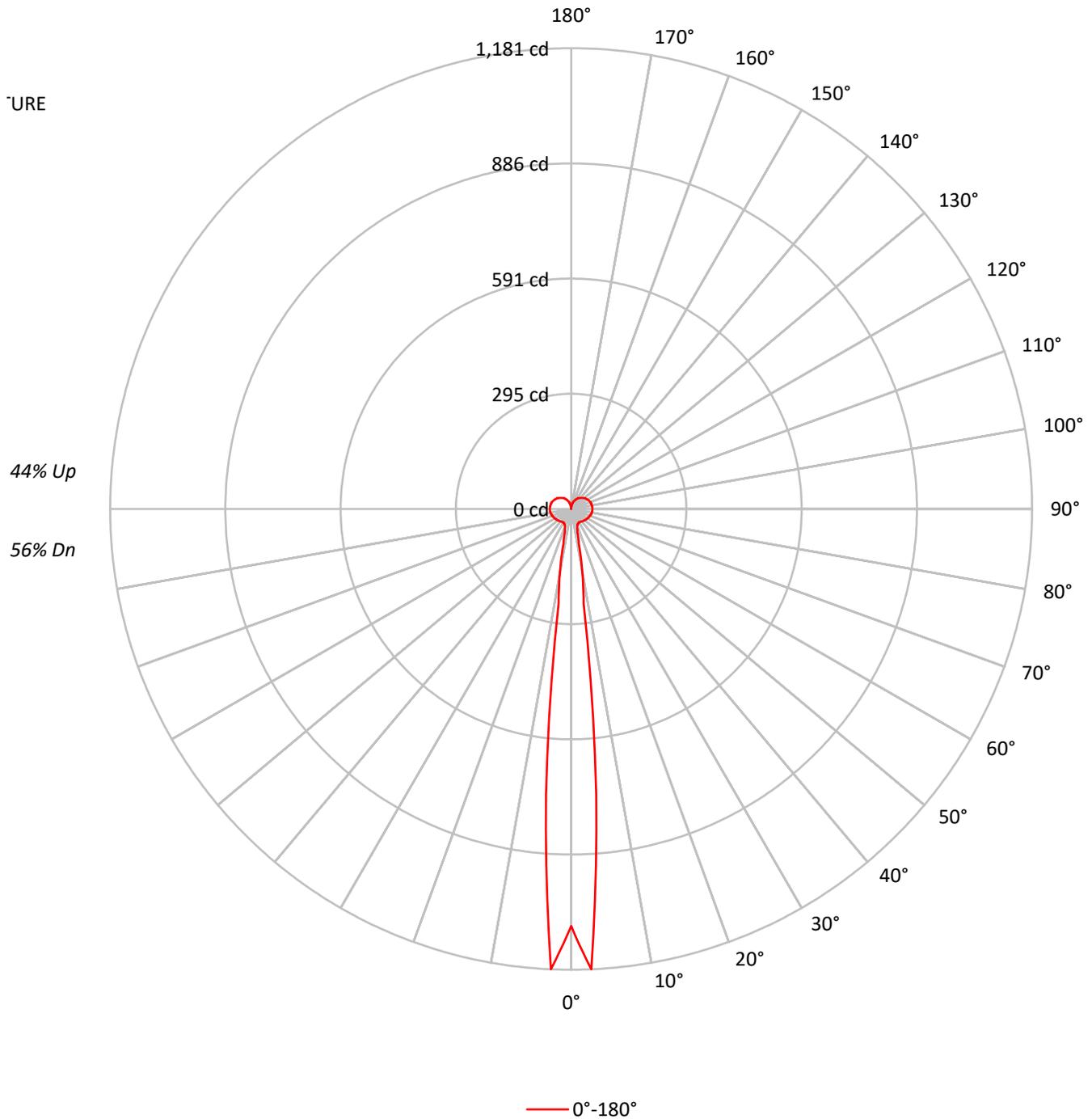
Test Method: LM-79-2019  
Report Number: P1244891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2412-299-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-MIN-M-927-07L-U-NL  
Description: 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, NATURAL LINES SHADE TEXT LIGHT LEVEL 5  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 628.9 lumens  
Efficiency: N/A  
Efficacy: 21.8 lumens/watt  
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.18  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 0.46' x H: 1.92')  
CIE Type: General Diffuse  
  
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |  |    |    |    |  |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|----|----|----|--|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |  | 20 |    |    |  | 20 |    |    |    |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |  | 30 |    |    |  | 10 | 0  |    |    |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |  |    |    |    |  |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 |  | 74 | 74 | 74 |  | 62 | 62 | 62 | 56 |
| 1   | 95  | 89  | 84  | 79  | 88  | 82  | 78  | 73  | 70 | 66 | 63 |  | 59 | 56 | 53 |  | 48 | 46 | 44 | 39 |
| 2   | 86  | 76  | 69  | 62  | 79  | 71  | 64  | 58  | 60 | 55 | 50 |  | 50 | 46 | 42 |  | 41 | 38 | 35 | 31 |
| 3   | 78  | 67  | 58  | 51  | 71  | 62  | 54  | 48  | 52 | 46 | 41 |  | 44 | 39 | 35 |  | 36 | 32 | 29 | 25 |
| 4   | 71  | 59  | 50  | 43  | 65  | 55  | 47  | 41  | 47 | 40 | 35 |  | 39 | 34 | 30 |  | 32 | 28 | 25 | 22 |
| 5   | 66  | 53  | 44  | 37  | 60  | 49  | 41  | 35  | 42 | 36 | 31 |  | 36 | 31 | 27 |  | 29 | 26 | 22 | 19 |
| 6   | 61  | 48  | 39  | 33  | 56  | 45  | 37  | 31  | 38 | 32 | 27 |  | 33 | 28 | 24 |  | 27 | 23 | 20 | 17 |
| 7   | 57  | 44  | 35  | 29  | 52  | 41  | 33  | 28  | 35 | 29 | 25 |  | 30 | 25 | 22 |  | 25 | 21 | 19 | 16 |
| 8   | 53  | 40  | 32  | 27  | 49  | 38  | 30  | 25  | 33 | 27 | 22 |  | 28 | 23 | 20 |  | 24 | 20 | 17 | 15 |
| 9   | 50  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 |  | 26 | 22 | 18 |  | 23 | 19 | 16 | 14 |
| 10  | 47  | 35  | 27  | 22  | 44  | 33  | 26  | 21  | 29 | 23 | 19 |  | 25 | 20 | 17 |  | 21 | 18 | 15 | 13 |

**AVERAGE LUMINANCE (cd/sqm):**

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 54778 |
| 5°  | 27689 |
| 10° | 4963  |
| 15° | 1579  |
| 20° | 990   |
| 25° | 801   |
| 30° | 697   |
| 35° | 640   |
| 40° | 620   |
| 45° | 607   |
| 50° | 600   |
| 55° | 596   |
| 60° | 598   |
| 65° | 605   |
| 70° | 615   |
| 75° | 631   |
| 80° | 640   |
| 85° | 655   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 667 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.1   | 7.5       |
| 10°-20°   | 20.6   | 3.3       |
| 20°-30°   | 19.4   | 3.1       |
| 30°-40°   | 25.5   | 4.1       |
| 40°-50°   | 33.6   | 5.3       |
| 50°-60°   | 41.8   | 6.6       |
| 60°-70°   | 49.4   | 7.8       |
| 70°-80°   | 55.8   | 8.9       |
| 80°-90°   | 59.2   | 9.4       |
| 90°-100°  | 59.2   | 9.4       |
| 100°-110° | 56.1   | 8.9       |
| 110°-120° | 50.1   | 8.0       |
| 120°-130° | 41.3   | 6.6       |
| 130°-140° | 31.2   | 5.0       |
| 140°-150° | 21.3   | 3.4       |
| 150°-160° | 12.0   | 1.9       |
| 160°-170° | 4.8    | 0.8       |
| 170°-180° | 0.4    | 0.1       |
| 0°-30°    | 87.1   | 13.8      |
| 0°-40°    | 112.6  | 17.9      |
| 0°-60°    | 188.0  | 29.9      |
| 0°-90°    | 352.4  | 56.0      |
| 90°-120°  | 165.4  | 26.3      |
| 90°-150°  | 259.3  | 41.2      |
| 90°-180°  | 277.0  | 44.0      |
| 0°-180°   | 628.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1069 |      |
| 5°   | 735  | 47   |
| 15°  | 63   | 21   |
| 25°  | 42   | 19   |
| 35°  | 40   | 26   |
| 45°  | 43   | 34   |
| 55°  | 46   | 42   |
| 65°  | 50   | 49   |
| 75°  | 53   | 56   |
| 85°  | 54   | 44   |
| 90°  | 54   | 30   |
| 95°  | 54   | 44   |
| 105° | 53   | 56   |
| 115° | 50   | 50   |
| 125° | 46   | 41   |
| 135° | 40   | 31   |
| 145° | 34   | 21   |
| 155° | 26   | 12   |
| 165° | 17   | 5    |
| 175° | 2    | 0    |
| 180° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 1068.9 |
| 2.5°   | 1181.0 |
| 5°     | 735.2  |
| 7.5°   | 243.8  |
| 10°    | 165.7  |
| 12.5°  | 90.7   |
| 15°    | 63.1   |
| 17.5°  | 52.1   |
| 20°    | 45.8   |
| 22.5°  | 43.4   |
| 25°    | 41.8   |
| 27.5°  | 40.2   |
| 30°    | 40.2   |
| 32.5°  | 40.2   |
| 35°    | 40.2   |
| 37.5°  | 41.0   |
| 40°    | 41.8   |
| 42.5°  | 42.6   |
| 45°    | 43.4   |
| 47.5°  | 44.2   |
| 50°    | 45.0   |
| 52.5°  | 45.8   |
| 55°    | 46.5   |
| 57.5°  | 47.3   |
| 60°    | 48.1   |
| 62.5°  | 48.9   |
| 65°    | 49.7   |
| 67.5°  | 50.5   |
| 70°    | 51.3   |
| 72.5°  | 52.1   |
| 75°    | 52.9   |
| 77.5°  | 53.6   |
| 80°    | 53.6   |
| 82.5°  | 54.4   |
| 85°    | 54.4   |
| 87.5°  | 54.4   |
| 90°    | 54.4   |
| 92.5°  | 54.4   |
| 95°    | 54.4   |
| 97.5°  | 54.4   |
| 100°   | 53.6   |
| 102.5° | 53.6   |
| 105°   | 52.9   |
| 107.5° | 52.9   |
| 110°   | 52.1   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 112.5° | 51.3 |
| 115°   | 50.5 |
| 117.5° | 49.7 |
| 120°   | 48.1 |
| 122.5° | 47.3 |
| 125°   | 45.8 |
| 127.5° | 45.0 |
| 130°   | 43.4 |
| 132.5° | 41.8 |
| 135°   | 40.2 |
| 137.5° | 38.7 |
| 140°   | 37.1 |
| 142.5° | 35.5 |
| 145°   | 33.9 |
| 147.5° | 32.3 |
| 150°   | 30.0 |
| 152.5° | 27.6 |
| 155°   | 26.0 |
| 157.5° | 23.7 |
| 160°   | 21.3 |
| 162.5° | 19.7 |
| 165°   | 16.6 |
| 167.5° | 13.4 |
| 170°   | 9.5  |
| 172.5° | 5.5  |
| 175°   | 1.6  |
| 177.5° | 0.0  |
| 180°   | 0.0  |



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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 5.6              | 6.6  | 6.5  | 7.5  | 8.7  | 5.6            | 6.6  | 6.5  | 7.5  | 8.7  |
|                 | 3H   | 8.6              | 9.6  | 9.5  | 10.5 | 11.7 | 8.6            | 9.6  | 9.5  | 10.5 | 11.7 |
|                 | 4H   | 10.1             | 11.0 | 11.0 | 12.0 | 13.2 | 10.1           | 11.0 | 11.0 | 12.0 | 13.2 |
|                 | 6H   | 11.6             | 12.4 | 12.5 | 13.4 | 14.6 | 11.6           | 12.4 | 12.5 | 13.4 | 14.6 |
|                 | 8H   | 12.3             | 13.1 | 13.2 | 14.1 | 15.3 | 12.3           | 13.1 | 13.2 | 14.1 | 15.3 |
|                 | 12H  | 13.0             | 13.8 | 13.9 | 14.7 | 16.0 | 13.0           | 13.8 | 13.9 | 14.7 | 16.0 |
| 4H              | 2H   | 6.4              | 7.3  | 7.3  | 8.2  | 9.4  | 6.4            | 7.3  | 7.3  | 8.2  | 9.4  |
|                 | 3H   | 9.6              | 10.4 | 10.5 | 11.3 | 12.5 | 9.6            | 10.4 | 10.5 | 11.3 | 12.5 |
|                 | 4H   | 11.2             | 12.0 | 12.2 | 12.9 | 14.2 | 11.2           | 12.0 | 12.2 | 12.9 | 14.2 |
|                 | 6H   | 12.9             | 13.5 | 13.8 | 14.5 | 15.7 | 12.9           | 13.5 | 13.8 | 14.5 | 15.7 |
|                 | 8H   | 13.7             | 14.3 | 14.6 | 15.3 | 16.5 | 13.7           | 14.3 | 14.6 | 15.3 | 16.5 |
|                 | 12H  | 14.5             | 15.0 | 15.4 | 16.0 | 17.3 | 14.5           | 15.0 | 15.4 | 16.0 | 17.3 |
| 8H              | 4H   | 11.8             | 12.4 | 12.7 | 13.4 | 14.6 | 11.8           | 12.4 | 12.7 | 13.4 | 14.6 |
|                 | 6H   | 13.6             | 14.1 | 14.6 | 15.1 | 16.4 | 13.6           | 14.1 | 14.6 | 15.1 | 16.4 |
|                 | 8H   | 14.6             | 15.0 | 15.5 | 16.0 | 17.3 | 14.6           | 15.0 | 15.5 | 16.0 | 17.3 |
|                 | 12H  | 15.5             | 16.0 | 16.5 | 16.9 | 18.3 | 15.5           | 16.0 | 16.5 | 16.9 | 18.3 |
| 12H             | 4H   | 11.9             | 12.4 | 12.8 | 13.4 | 14.7 | 11.9           | 12.4 | 12.8 | 13.4 | 14.7 |
|                 | 6H   | 13.8             | 14.3 | 14.8 | 15.3 | 16.6 | 13.8           | 14.3 | 14.8 | 15.3 | 16.6 |
|                 | 8H   | 14.8             | 15.3 | 15.8 | 16.3 | 17.6 | 14.8           | 15.3 | 15.8 | 16.3 | 17.6 |

(END OF REPORT)